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DATE MAILED: 10/18/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/733,145	12/11/2003	Robert W. Mueller	03-EDP-234	7387
7590 10/18/2004			EXAMINER	
Martin J. Moran, Esquire			DONOVAN, LINCOLN D	
Eaton Electrical, Inc. Technology & Quality Center			ART UNIT	PAPER NUMBER
170 Industry Drive, RIDC Park West			2832	
Pittsburgh, PA 15275-1032			D. DD. 144 11 DD. 40404004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/733,145	MUELLER ET AL.				
		Examiner	Art Unit				
		Lincoln Donovan	2832				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on	<u>_</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This	s action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	Disposition of Claims						
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6,10-14 and 20-24 is/are rejected. 7) Claim(s) 7-9 and 15-19 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Applicati	ion Papers						
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	•						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) 🔯 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>12-11-04</u> .			D-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 11, 13 and 20-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeuchi et al. [US 4,746,720].

Regarding claims 1, 11, 13 and 20-23, Takeuchi et al. disclose a circuit breaker [figure 1] comprising:

- a molded housing [1] formed of a cover [figure 1] and base, the base including first and second openings [figure 10];
- at least one pair of separable contacts [2, 3] including a stationary contact and a movable contact [figure 1];
- an operating mechanism [column 5, lines 15-34] disposed in the housing and coupled to the separable contacts structured to move the separable contacts between an open and a closed position;
- a trip mechanism [column 5, lines 15-34] disposed in the housing and coupled to the operating mechanism to actuate the operating mechanism to open the separable contacts; and

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- a slot motor assembly [110, figure 16] having upper and lower slot motor assembly being disposed above and below the movable contact forming a u-shaped assembly about the contacts.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-6, 10, 12, 14 and 24 rejected under 35 U.S.C. 103(a) as being unpatentable over Takeuchi et al. in view of Kowalczyk et al. [US 4,963,849].

Regarding claims 2-4, 6, 10 and 14, Takeuchi et al. disclose everything claimed except for the slot motor yoke being formed of laminated steel sheets.

Kowalczyk et al. discloses a slot motor assembly [40] formed of a plurality of laminated u-shaped steel plates mounted within a u-shaped holder [30].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use laminated plates mounted within a holder for the slot motor of Takeuchi et al., as suggested by Kowalczyk et al., for the purpose of facilitating assembly and accommodating differing breaker ratings.

To use steel to form the plates would have been obvious in order to provide a good magnetic flux path.

Regarding claims 5, 12 and 24, Kowalczyk et al. further disclose the use of a plurality of slot motors in a polyphase breaker.

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It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a plurality of slot motors in a polyphase breaker in order to minimize arcing in each of the phases.

Allowable Subject Matter

Claims 7-9 and 15-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mody et al. [US 5,694,098] and Munsch et al. [US 6,281,459].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lincoln Donovan whose telephone number is 571-272-1988. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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